

FIG. 8b

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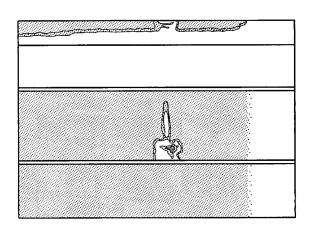


FIG. 9a

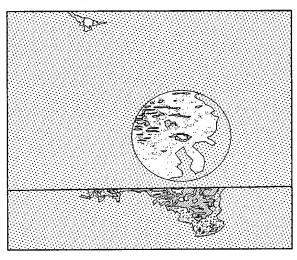


FIG. 9b

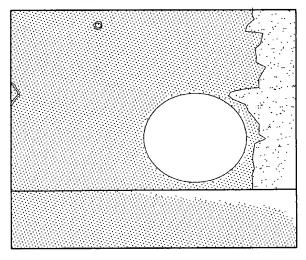
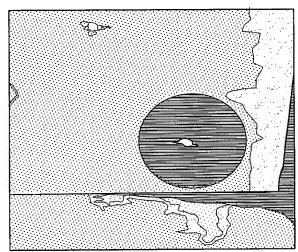


FIG. 9c



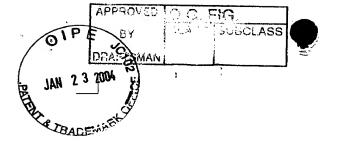


FIG. 10 (a)

TABLE I. FRE _{MR-tran} and TRE _{MR-tran} for 12 different configurations of the phantom 32 and the transmitter 22.

-	FRE MR-tran	TRE MR-tran
mean (mm)	1.18	1.78
std (mm)	0.10	0.18
min (mm)	1.02	1.50
max (mm)	1.38	2.08

FIG. 10 (b)

TABLE II. Statistics of the difference D_{meas} -D true

	BEAD 1	BEAD 2	BEAD 3	BEAD 4
mean (mm)	-0.01	-0.26	0.03	-0.32
std (mm)	0.57	0.54	0.93	0.59
min (mm)	-0.92	-0.96	-1.55	-1.19
max (mm)	0.81	0.74	1.42	1.18

FIG. 10 (c)

TABLE III. Statistics of registration error $TRE_{\mathit{US-MR}}$ between MR and US space.

	BEAD AT DEPTH OF 16.8 mm	BEAD AT DEPTH OF 29.9 mm	BEAD AT DEPTH OF 44.5 mm	BEAD AT DEPTH OF 62.9 mm
mean (mm)	3.56	3.00	2.24	2.00
std (mm)	1.82	1.30	0.78	0.75
min (mm)	0.16	0.85	1.03	0.64
max (mm)	8.49	6.24	3.59	3.73